

Title (en)
METHOD AND DEVICE FOR INSPECTING A TRAVELING WIRE CABLE

Title (de)
VERFAHREN UND VORRICHTUNG ZUM INSPIZIEREN EINES LAUFENDEN DRAHTSEILS

Title (fr)
PROCEDE ET DISPOSITIF POUR INSPECTER UN CABLE METALLIQUE EN MOUVEMENT

Publication
EP 1938089 B1 20161123 (DE)

Application
EP 06806259 A 20061013

Priority
• EP 2006009908 W 20061013
• DE 102005050220 A 20051020

Abstract (en)
[origin: WO2007045403A1] In a first embodiment, a picture is taken of the traveling wire cable in a stationary position at intervals that are equal to the ratio produced from the lay length or a multiple of the lay length and the travel speed of the wire cable, at least on one lay length or the above-mentioned multiple of the lay length, and the successive images are compared on at least one lay length or the above-mentioned multiple of the lay length and are monitored for changes in the image which are indicative of damages. In a second embodiment, the wire cable is instead of taking pictures exposed to flashes and the exposed image is detected on at least one lay length or the above-mentioned multiple of the lay length and monitored for changes in the image. Preferably, the respective repetition of the same outer stranded wire of the traveling wire cable is detected in the same location and every repetition or every other repetition or every third repetition is used for triggering the taking of a picture or for triggering the flash. In a third embodiment, a picture is taken of a large portion of the wire cable using a specialized camera and the image is split up into recurring units of length that correspond to the size of a lay length or a multiple of the lay length and the successive units of length are compared and inspected for changes in the image.

IPC 8 full level
B66B 7/12 (2006.01); **D01H 13/26** (2006.01); **G01N 21/88** (2006.01); **G01N 21/952** (2006.01); **G01N 33/36** (2006.01)

CPC (source: EP KR US)
B66B 7/1238 (2013.01 - EP US); **D01H 13/26** (2013.01 - EP US); **D06H 3/08** (2013.01 - KR); **G01N 21/88** (2013.01 - KR); **G01N 21/8803** (2013.01 - EP US); **G01N 21/89** (2013.01 - KR); **G01N 21/952** (2013.01 - EP KR US); **G01N 33/365** (2013.01 - EP US)

Citation (examination)
WEHKING K-H ET AL: "INNOVATIVE PROCEDURE FOR VISUAL ROPE INSPECTION", LIFT REPORT, VFZ VERLAG, DORTMUNT, DE, vol. 29, no. 3, 1 January 2003 (2003-01-01), pages 10,12,14, XP001162513, ISSN: 0341-3721

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
DE 102005050220 A1 20070426; AU 2006303562 A1 20070426; AU 2006303562 B2 20120517; BR PI0617650 A2 20110802; CN 101292153 A 20081022; CN 101292153 B 20110406; EA 012770 B1 20091230; EA 200801121 A1 20081030; EP 1938089 A1 20080702; EP 1938089 B1 20161123; JP 2009512879 A 20090326; KR 20080066809 A 20080716; NO 20081823 L 20080520; NZ 568181 A 20101029; US 2009232383 A1 20090917; US 2012294506 A1 20121122; US 8254660 B2 20120828; US 8526706 B2 20130903; WO 2007045403 A1 20070426; ZA 200804090 B 20091028

DOCDB simple family (application)
DE 102005050220 A 20051020; AU 2006303562 A 20061013; BR PI0617650 A 20061013; CN 200680038846 A 20061013; EA 200801121 A 20061013; EP 06806259 A 20061013; EP 2006009908 W 20061013; JP 2008539276 A 20061013; KR 20087011948 A 20080519; NO 20081823 A 20080415; NZ 56818106 A 20061013; US 201213559286 A 20120726; US 8341506 A 20061013; ZA 200804090 A 20061013